

*PERFECT
ENTERTAINMENT.
DUAL.*

Dual

HIFI PROGRAM

Dual. The Hi-Fi Specialist.

Dual. The name has a sound reputation in consumer electronics. For instance, Dual turntables have always been synonymous with the state of the art.

In keeping with this successful tradition, we shall continue to develop equipment that is geared to the future in terms of technology, capabilities and level of operating convenience.

Today, more than ever before, this philosophy is winning the approval of consumers worldwide. It is based on a concept that combines innovative technology with superb design. The result is visionary engineering. In other words:

Perfect entertainment.

Progress built on experience.

Dual turntables have – by tradition – stood for quality of the highest order. Today, advanced Hi-Fi engineering gives the listener the opportunity to experience sound that is every inch as pure and as transparent as the original.

The phenomenal tonal quality for which Dual turntables are renowned is largely attributable to the carbon fibre headshell which optimizes the musical reproduction through its improved pick-up behaviour. The gyroscopic gimbal tonearm bearing is the very nub of the tonearm system. It holds the tonearm in perfect balance and, in conjunction with other technical refinements, ensures optimum tracking.

But it is not only the technology within that earns top marks for Dual turntables. In design, too, they are second to none.

For details of Dual turntables, see page 4 onwards.



Two components combine to give quality without compromise.

Dual receivers are a noteworthy alternative to separate tuner/amplifier combinations. The integration of two components into one cabinet not only saves on space, but on cost too. And you can be sure of the same uncompromising quality that you would expect from Dual tuners and amplifiers. Among the outstanding features of these receivers are unadulterated and undistorted sound reproduction plus first-class user convenience (e.g. 16 memory locations). In short, Dual receivers are the perfect alternative thanks to their unbeatable combination of sophisticated technology and wide-ranging features.

For details of Dual receivers, see page 8 onwards.



Audiophile Concept

It takes fullness of sound to bring the music alive.

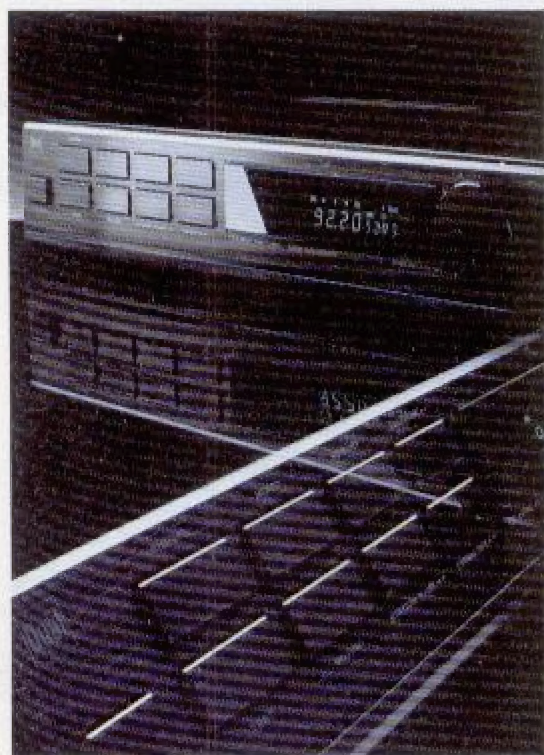
Both technically and visually, Dual amplifiers bring performance and function into perfect harmony. With their delicately defined acoustical qualities, they achieve a transparent tonal spectrum that is reproduced without the merest hint of distortion.

For details of Dual amplifiers, see page 10.

Advanced computer technology opens the door to a new era.

Inimitable sound, exclusive design, unbeatable quality. Dual guarantees all three with its experience and its name. Dual tuners are a clear expression of this ideology. They represent perfected, future-oriented Hi-Fi engineering at its most sophisticated.

For details of Dual tuners, see page 11.



Perfection is an ideal we're close to achieving.

The new CD players from Dual come very close to perfect listening pleasure. The pioneering technology we have employed produces sound of unsurpassed dynamics and purity.

Dual CD players will take you into a fascinating world of musical enjoyment where there is no place for the hiss and crackle of yesteryear. Outstanding sound quality is guaranteed by a combination of sophisticated techniques. Take the astigmatic method, for example. This optimized laser scanning system ensures excellent tracking under the most demanding conditions. Then there's oversampling to increase the scanning frequency. This reduces the harmonic distortion and results in frequency response of optimum linearity. And, of course, you can depend on superb operating facilities, such as remote control and a six-digit display.

With these CD players, Dual has achieved a new level of technical perfection, maximum versatility and optimum operating convenience.

For details of Dual CD players, see page 12 onwards.

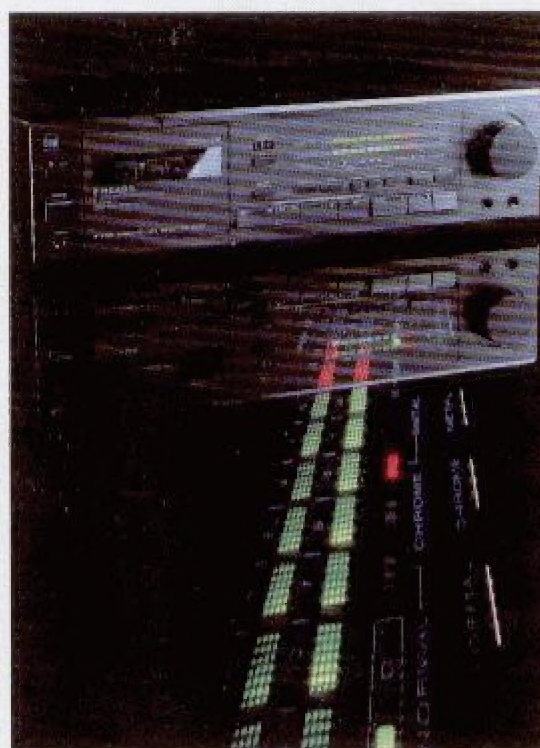


Convenience comes as standard with technology for the future.

Dual Hi-Fi cassette decks are the result of supreme engineering know-how aimed at quality of sound and durability of design. The high azimuth accuracy (the audio head is always at the correct angle to the direction of the tape) and the computer-controlled drive (which monitors and optimizes the tape transport) guarantee brilliant recordings and superb playback with clear, undistorted trebles.

The host of outstanding features testifies to the high standards of cassette decks from Dual. For instance: Full logic, HX Pro, amorphous audio head, repeat functions, music search system, peak recording level display and, last but not least, Dolby B and C Noise Reduction. It adds up to noise-free, crystal-clear music reproduction. With Dual's innovative technology and effective operating convenience, the difference is plain to hear.

For details of Dual cassette decks, see page 14.



Hi-Fi Turntables



*Progress built on
experience.*

Dual Golden 1

Star performer CS 7000.

In terms of technology, this audiophile semi-automatic turntable from the top of the range fulfils the promise of its impressive design. All metal components are 24 carat gold plated, and the wood cabinet features a high-quality piano varnish finish in black.

Tonearm:

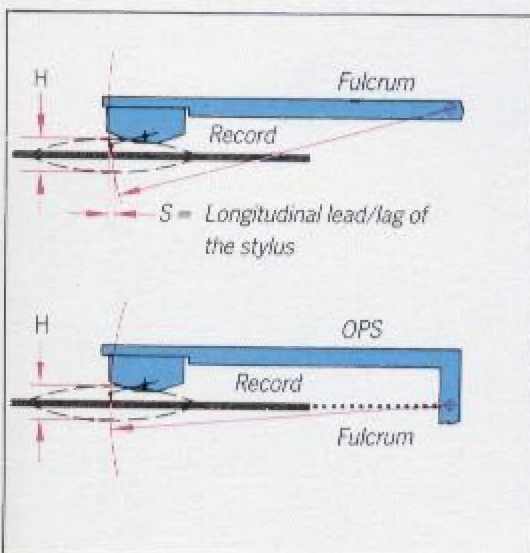
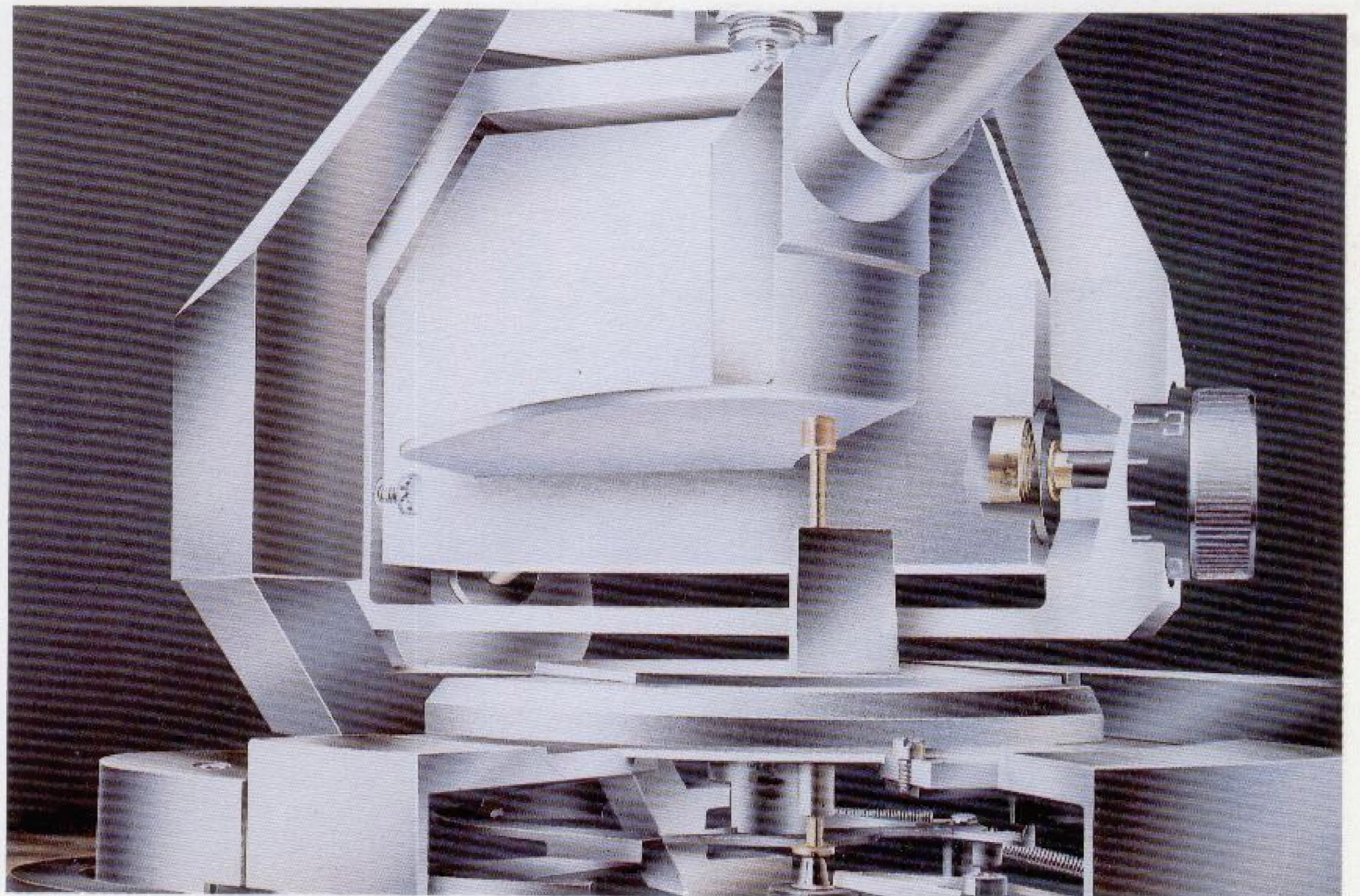
- Gyroscopic gimbal tonearm with low-mass tracking thanks to high-precision torsion spring
- Optimum Pivot System for optimum tracking
- Detachable 1/2" headshell
- Adjustable tracking and anti-skating force
- Extremely rigid, one-piece headshell in carbon fibre
- Tonearm design optimised for fitting moving coil systems

Chassis:

- Full-size floating chassis
- Vibration-damped aluminium turntable with anti-resonance coating
- Record stabilizer

Drive:

- Quartz-controlled flat motor with speed monitoring by microprocessor
- Viscosity-damped cueing device
- Contact-free final switching off with tonearm lift
- Facility for playing 78 rpm shellac records



The Optimum Pivot System

The tonearm bearing is positioned lower. Consequently, the pick-up stylus lies more snugly in the record groove, and added mass and flutter due to undulations are no longer measurable.

Dual CS 5000

Among the best in tests.

The audiophile turntable that scores top marks in every department. A semi-automatic turntable with auto stop, belt drive, quartz control and adjustable floating chassis.

Tonearm:

- Gyroscopic gimbal tonearm with low-mass tracking force thanks to high-precision torsion spring
- Optimum Pivot System for optimum tracking
- Detachable ½" headshell
- Vertical tracking angle correction
- Anti-skating
- Carbon fibre headshell

Chassis:

- Full-size floating chassis
- Vibration-damped aluminium turntable with anti-resonance coating

Drive:

- Quartz-controlled flat motor with speed monitoring by microprocessor
- Viscosity-damped cueing device
- Contact-free final switching off with tonearm lift



Carbon fibre headshell
Dual CS 505-3

Dual CS 505-3

A superior specification in a deceptively discreet design.

The "inner values" of this audiophile semi-automatic turntable with belt drive are guaranteed to satisfy the most demanding Hi-Fi enthusiast.

Tonearm:

- U.L.M. tonearm
- Gimbal tonearm mounting
- Low-mass tracking force
- Detachable ½" headshell
- Carbon fibre headshell, detachable

Chassis:

- Full-size floating chassis
- Vibration-damped aluminium profile turntable

- Anti-resonance turntable coating

Drive:

- Belt drive with precision-ground flat belt
- 16-pole synchronous motor
- Fine speed adjustment 12%
- Adjustable tracking and anti-skating
- Viscosity-damped cueing device
- Pilot lift and automatic stop

Dual CS 455

Automatically yours: supreme sophistication.

An automatic Hi-Fi turntable that features a high level of operating convenience and first-class musical reproduction.

Tonearm:

- U.L.M. tonearm
- Gimbal tonearm mounting
- Adjustable tracking force
- Detachable 1/2" headshell

Chassis:

- Floating sub-chassis
- Vibration-damped aluminium profile turntable
- Platter with anti-resonance coating

Drive:

- Belt drive with precision-ground flat belt
- Viscosity-damped cueing device
- DC motor with electronic speed monitoring

The CS 455 delivers the same superior performance as the **Dual CS 450** (not illustrated) semi-automatic turntable.



Dual CS 431

Music maker par excellence.

This semi-automatic Hi-Fi turntable with automatic tonearm return makes music an experience.

Tonearm:

- Headshell with 1/2" mounting

Chassis:

- Floating sub-chassis
- Vibration-damped aluminium profile turntable
- Platter with anti-resonance coating

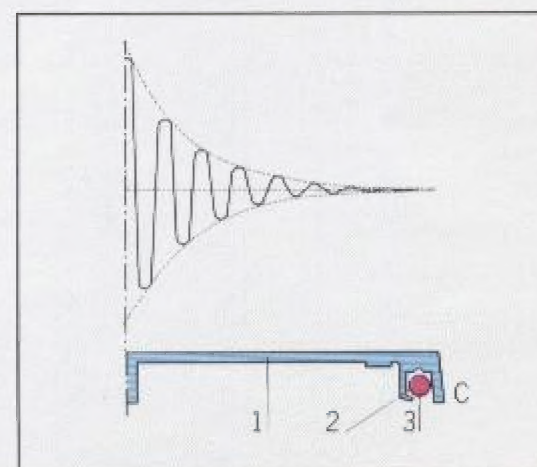
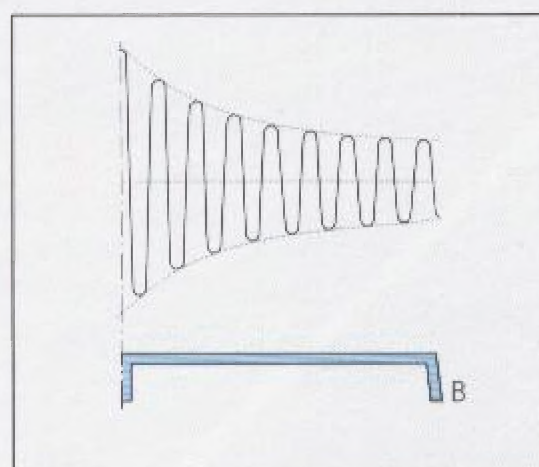
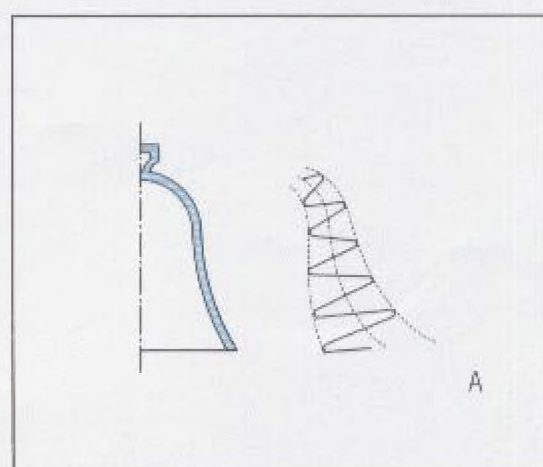
Drive:

- Belt drive with precision-ground flat belt
- Viscosity-damped cueing device
- DC motor with electronic speed monitoring



Vibration-damped aluminium profile turntable: "Golden 1", CS 5.000 and CS 505-3.

An oscillogram shows up very clearly the close resemblance between the vibration characteristics of a bell (A) and those of an undamped turntable platter (B). In contrast, figure C illustrates just how effectively the turntable platter is damped with the aid of an integrated heavy-metal ring and elastic coating for the platter.



Hi-Fi Receivers



*Two components
combine to give quality
without compromise.*

Dual CR 5950 RC

Two in one.

Amplifier and tuner in one cabinet.
That's the CR 5950 RC receiver. With
remote control for all main functions.
(Dual RC 50 infra-red remote control
included).

Amplifier section:

- Rated output power at 8 ohms
(DIN/IHF) 70/60 watts
- Dynamic output power at 4/8 ohms
85/130 watts
- 6 inputs
- Direct tape-to-tape recording
- Outputs for 2 loudspeaker pairs
- Direct switching of CD
- Loudness function
- Headphones connection
- Equalizer connection (separable
preamplification/output stages)
- Double transistorized power stages

Tuner section:

- 2 wavebands (FM, MW)
- Quartz-precision station selection
- Digital frequency display
- Manual and automatic station search
- 6 memory locations
- Memory contents remain intact in
event of mains power failure



Dual CR 5900

Twice the power.

This receiver combines a powerful
amplifier with a high-performance
tuner.

Amplifier section:

- Rated output power at 8 ohms
(DIN/IHF) 45/35 watts
- Dynamic output power at 4/8 ohms
65/90 watts
- 5 inputs
- Outputs for 2 loudspeaker pairs
- Loudness circuit
- Headphones connection

Tuner section:

- 2 wavebands (FM/MW)
- Quartz-precision station selection
- Manual and automatic station search
- 16 memory locations
- Memory contents remain intact in
event of mains power failure.

*It takes fullness of
sound to bring the
music alive.*

Dual PA 5060

Engineered for powerful performance.

An audiophile full-range amplifier with the technology to satisfy every desire.

- High pulse power: 2×85 watts at 8 ohms, 2×130 watts at 4 ohms, 2×170 watts at 2 ohms.
- Special high-power transformers and capacitors.
- 7 inputs
- Gold-plated connectors for phono and CD
- Headphones output
- Direct tape-to-tape recording
- Defeat circuit
- Heavy-duty chassis



Dual PA 5030

Super spec. Great sound.

A full-range amplifier that's full of features. Audiophile class, of course.

- High pulse power: 2×45 watts at 8 ohms, 2×65 watts at 4 ohms, 2×85 watts at 2 ohms.
- Special high-power transformers and capacitors
- 7 inputs
- Gold-plated connectors for phono and CD
- Headphones output
- Direct tape-to-tape recording
- Heavy-duty chassis

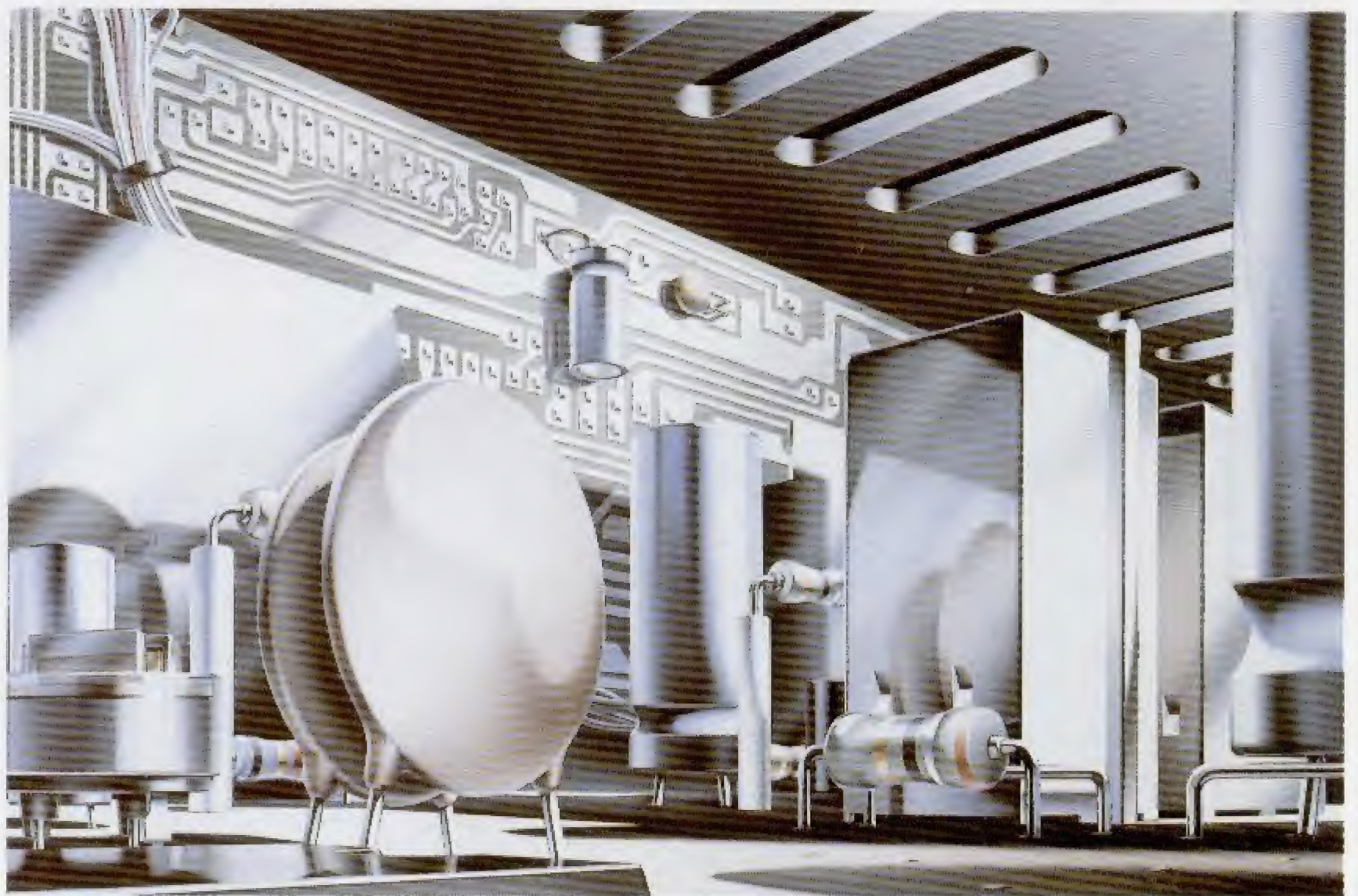
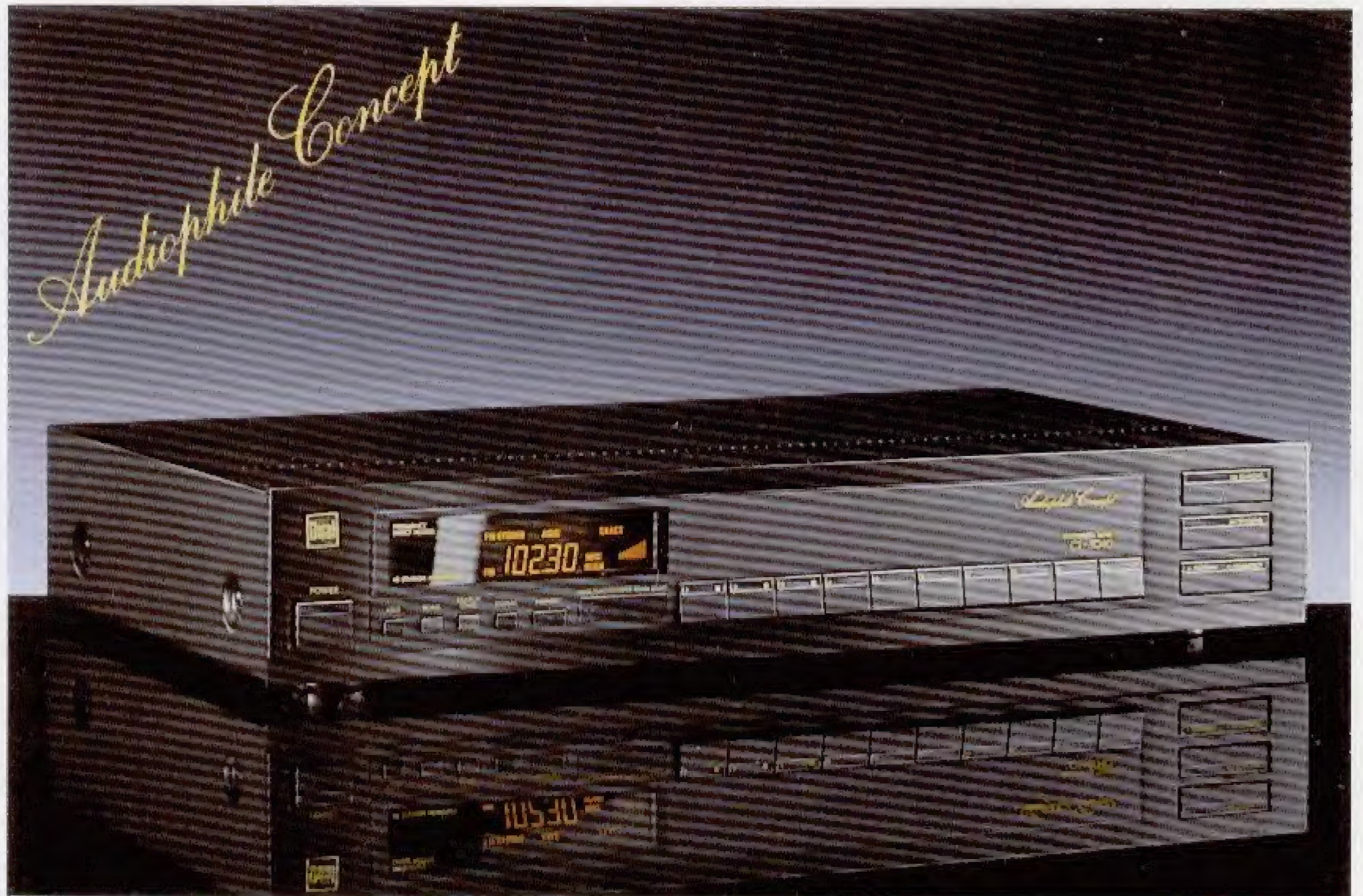
*Advanced computer
technology opens the
door to a new era.*

Dual CT 5040

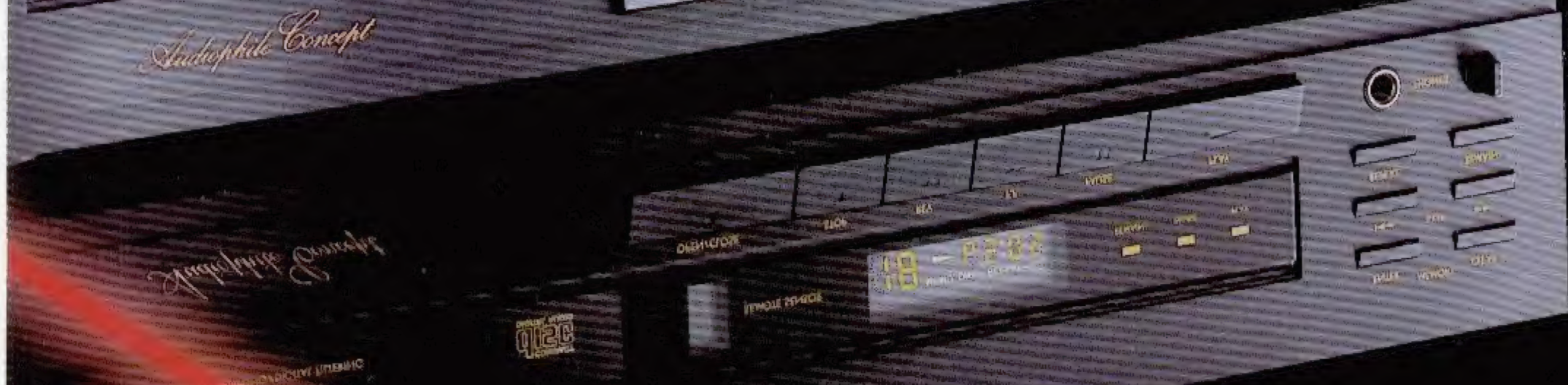
Pure bred for pure pleasure.

This is the Hi-Fi stereo quartz synthesizer tuner from the "Audiophile Concept". That means professional technology wrapped in exclusive design.

- 3 wavebands (FM, MW, LW)
- Quartz-precision station selection in 10 kHz steps
- Digital display of frequency and storage location
- Manual and automatic station search
- Adjustable search sensitivity
- Direct frequency input
- 40 storage locations
- Automatic preset and preset play selection
- Memory contents remain intact in the event of mains failure
- Muting circuit between stations
- Built-in ferrite aerial



Compact Disc Player



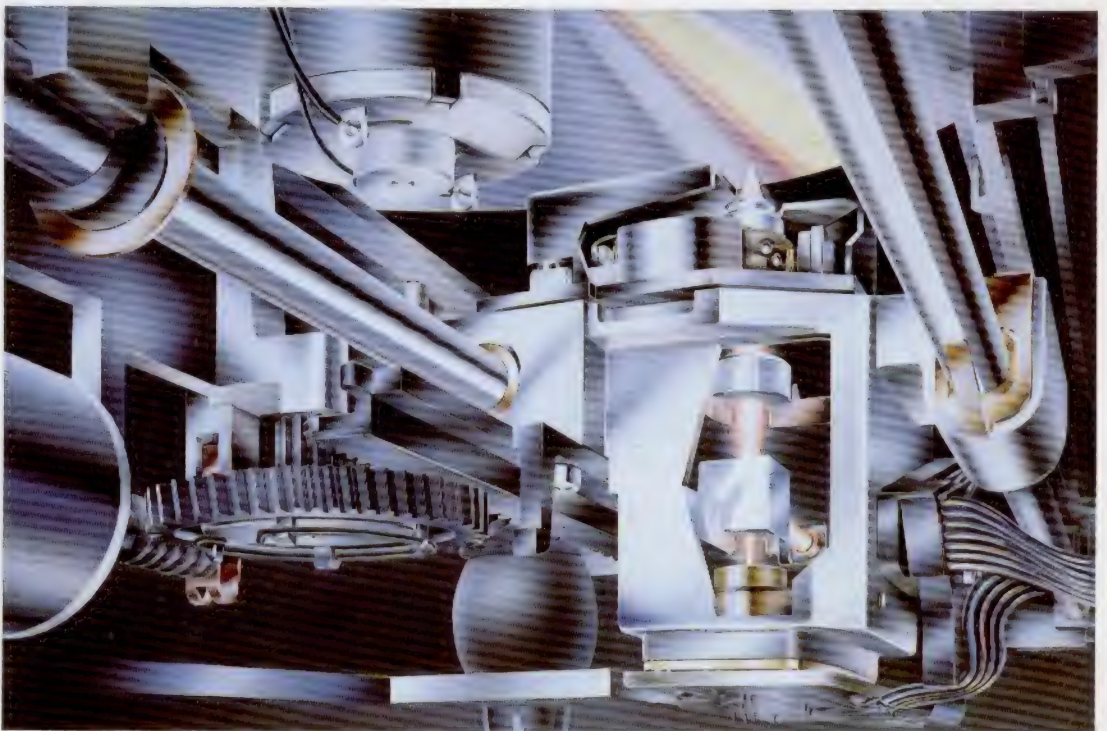
*Perfection is
an ideal we're close
to achieving.*

Dual CD 5070 RC

A virtuoso among CD players.

An audiophile CD player with superb reproduction quality.

- Front loader
- Motorised drawer system
- 3-beam laser pickup
- High speed 16-bit converter
- Dual oversampling
- Digital and LC filter
- 6-digit multi-function display for playing time elapsed and remaining, plus track number. Displays for play, repeat, memory, pause
- Programming of up to 16 music tracks
- Direct access to the individual music tracks via numeric keypad on the remote control
- Search functions in both directions
- Step-back function for starting from the beginning of the last track
- Repeat function for repeating the track, the program or the whole CD
- Infra-red remote control
- Variable headphones output
- Metal fascia



6-digit display on a Dual CD player.

*Convenience comes
as standard with technology
for the future.*

Dual CC 5850 RC

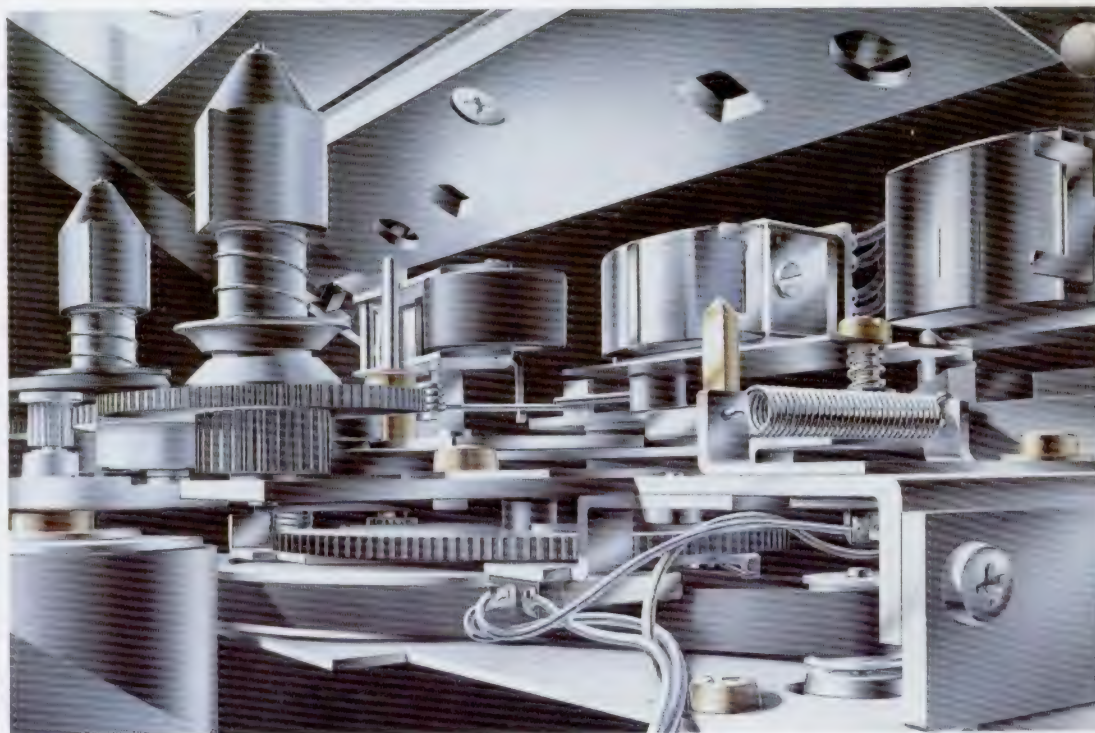
Audiophile Hi-Fi dynamics.

This unit represents the state of the art in Hi-Fi stereo cassette deck technology. Complete with infra-red remote control for all main functions (in conjunction with the Dual CR 5950 RC receiver).

- Computer-controlled 2-motor cassette drive
- Amorphous audio head
- Dolby B and C* Noise Reduction
- HX Pro for optimum treble recording control
- Music finder for locating the next music track
- Automatic tape selector
- Record level display with peak hold
- Bias adjustment: adjustable pre-magnetization
- Separate balance control
- Switchable MPX filter
- Repeat function
- Memory function
- Record mute function
- Headphones output
- All-metal chassis with aluminum fascia



*Dual Hi-Fi cassette deck
showing the 3-head arrangement*



Dual



A photograph of a forensic scale with a ruler and a color calibration strip. The ruler is marked in inches and centimeters. The color strip includes a grayscale step wedge and a series of color patches. The text "NORMAL CHROME METAL" is visible on the right side of the scale.

NIOBMA — CHROME — METAL

METAL DOME

CHRON

Hi-Fi Turntables

| Model | Golden 1 | CS 5000 | CS 505-3 | CS 455 | CS 450 | CS 431 |
|--|---|--|--|---|---|---|
| Type | Hi-Fi semi-automatic | Hi-Fi semi-automatic | Hi-Fi semi-automatic | Hi-Fi automatic | Hi-Fi semi-automatic | Hi-Fi semi-automatic |
| Motor | Electr. DC quartz | Electr. DC quartz | 16-pole synchronous | Electr. DC | Electr. DC | Electr. DC |
| Drive system | Belt | Belt | Belt | Belt | Belt | Belt |
| Speed rpm | 33/45/78 | 33/45/78 | 33/45 | 33/45 | 33/45 | 33/45 |
| Wow and flutter ± % DIN/WRMS | 0.023/0.013 | 0.025/0.015 | 0.06/0.035 | 0.07/0.04 | 0.07/0.04 | 0.08/0.05 |
| Rumble dB | 58 | 56 | 52 | 48 | 48 | 46 |
| Signal-to-noise ratio dB | 80 | 80 | 75 | 72 | 72 | 68 |
| Cartridge | without Preferable MC. | without | without | without | without | without |
| | For cartridges with weights between 3 and 10 g | For cartridges with weights between 3 and 10 g | For cartridges with weights between 3 and 10 g | For cartridges with weights between 3 and 10 g | For cartridges with weights between 3 and 10 g | For cartridges with weights between 3 and 10 g |
| Dimensions/Finish | | | | | | |
| Dimensions (width × height × depth) mm | 440 × 143 × 380 | 440 × 129 × 380 | 440 × 138 × 368 | 440 × 119 × 360 | 440 × 119 × 360 | 440 × 119 × 360 |
| Weight kg | 8.0 | 7.4 | 6.5 | 5.9 | 5.8 | 5.4 |
| Mains voltage V | 120 | 120 | 120 | 120 | 120 | 120 |
| Mains frequency Hz | 60 | 60 | 60 | 60 | 60 | 60 |
| Finish | Wood console with brilliant, high gloss finish in Black | Wood console with real wood veneer Walnut Black | Wood console with real wood veneer Walnut Black | Wood console with foil-coated surface in Black finish | Wood console with foil-coated surface in Black finish | Wood console with foil-coated surface in Black finish |

Indicated values are typical values. Rumble, wow and flutter measured with lacquer disc.

Hi-Fi Receivers, Hi-Fi Amplifiers

| Technical Data (typical values) | CR 5950 | CR 5900 | PA 5060 | PA 5030 |
|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Rated power at 8 ohms, both channels driven DIN, 1 kHz 1.0% THD | 2 × 70 watts | 2 × 45 watts | 2 × 70 watts | 2 × 35 watts |
| IHF, 20 Hz – 20 kHz, 0.03% THD | 2 × 60 watts | 2 × 35 watts | 2 × 60 watts | 2 × 30 watts |
| Dynamic power, 8 ohms (10 cycles 1 kHz, 1 sec repeat) | 2 × 85 watts | 2 × 65 watts | 2 × 85 watts | 2 × 45 watts |
| Dynamic power, 4 ohms (10 cycles 1 kHz, 1 sec repeat) | 2 × 130 watts | 2 × 90 watts | 2 × 130 watts | 2 × 65 watts |
| Dynamic power, 2 ohms (10 cycles 1 kHz, 1 sec repeat) | | | 2 × 170 watts | 2 × 85 watts |
| Peak current capability (10 cycles 1 kHz, 1 sec repeat) | | | 21 amperes | 15 amperes |
| Power bandwidth, – 3 dB | 10 to 70,000 Hz | 10 to 50,000 Hz | 6 to 90,000 Hz | 6 to 90,000 Hz |
| Damping factor (40 Hz to 12.5 kHz, 8 ohms) | 80 | 40 | 80 | 60 |
| Slew rate | | | 30 V/μs | 30 V/μs |
| Total harmonic distortion – 6 dB/1 kHz | 0.02% | 0.02% | 0.01% | 0.03% |
| Intermodulation distortion 60 Hz/1 kHz, 4:1 | 0.05% | 0.05% | 0.02% | 0.05% |
| Input sensitivity, moving coil | | | 0.2 mV | 0.2 mV |
| Input sensitivity, moving magnet | 2.5 mV | 2.5 mV | 2.5 mV | 2.5 mV |
| Input sensitivity, CD/Tape/Aux | 150 mV | 150 mV | 200 mV | 200 mV |
| Frequency response (tuner, CD, tape, video) | 20 to 20,000 Hz ± 0.5 dB | 20 to 20,000 Hz ± 0.5 dB | 20 to 20,000 Hz ± 0.4 dB | 20 to 20,000 Hz ± 0.4 dB |
| Frequency response (phono RIAA) | 20 to 20,000 Hz ± 1.0 dB | 20 to 20,000 Hz ± 1.0 dB | 20 to 20,000 Hz ± 1.0 dB | 20 to 20,000 Hz ± 1.0 dB |
| Signal-to-noise ratio, MC input (unweighted/A weighted) | | | 65/70 dB | 65/70 dB |
| Signal-to-noise ratio, mm input (unweighted/A weighted) | 75/80 dB | 70/75 dB | 73/78 dB | 73/78 dB |
| Signal-to-noise ratio, CD input (unweighted/A weighted) | 95/100 dB | 90/95 dB | 95/100 dB | 95/100 dB |
| Crosstalk 1 kHz | 80 dB | 80 dB | 80 dB | 80 dB |
| Control range (100 Hz/10 kHz) | ± 9 / ± 9 dB | ± 9 / ± 9 dB | ± 10 / ± 10 dB | ± 10 / ± 10 dB |
| Dimensions/Finish | | | | |
| Dimensions (W × H × D, in inches) | 17.3 × 4.8 × 11.8 | 17.3 × 4.8 × 11.8 | 17.3 × 4.3 × 11 | 17.3 × 4.3 × 11 |
| Power requirements | 120 V AC, 60 Hz | 120 V AC, 60 Hz | 120 V AC, 60 Hz | 120 V AC, 60 Hz |
| Finish | – S –, black anodized metal fascia | – S –, black anodized metal fascia | – S –, black anodized metal fascia | – S –, black anodized metal fascia |

Hi-Fi Tuner

| Technical Data (typical values) | CT 5040 |
|---|-----------------------------------|
| Usable sensitivity (IHF, 75 ohms) | 10.8 dBf/1.5 μ V |
| Stereo 50 dB quieting sensitivity (75 ohms) | 35 dBf |
| Signal-to-noise ratio (mono, A weighted) | 76 dB |
| Signal-to-noise ratio (stereo, A weighted) | 70 dB |
| Frequency response (\pm 1.5 dB) | 20 to 16,000 Hz |
| Stereo separation (1 kHz) | 45 dB |
| Capture ratio | 2 dB |
| Alternate channel selectivity (\pm 400 kHz) | 70 dB |
| AM rejection | 55 dB |
| Image rejection | 75 dB |
| IF rejection | 110 dB |
| Spurious rejection | 110 dB |
| Distortion, THD | 0.2% |
| AM tuner section: | |
| Sensitivity (internal antenna) | 250 μ V |
| Sensitivity (external antenna) | 30 μ V |
| Selectivity | 45 dB |
| Audio response (\pm 6 dB) | 40 to 2500 Hz |
| Signal-to-noise ratio | 48 dB |
| Distortion | 0.5% THD |
| Dimensions (W \times H \times D, in inches) | 17.3 \times 3.0 \times 9.6 |
| Power requirements | 120 V AC, 60 Hz |
| Finish | — S—, black anodized metal fascia |

Compact Disc Player

| Technical Data (typical values) | CD 5070 RC |
|---|---|
| D/A converter | 16 bit high-speed |
| Tracking frequency | 88.2 kHz |
| Filter | Digital and L/C |
| Frequency response (\pm 1 dB) | 5...20,000 Hz |
| Dynamic range | 96 dB |
| Signal-to-noise ratio | 96 dB |
| Total harmonic distortion | |
| THD, (1 kHz/20 Hz–20 kHz) | 0.003% / 0.006% |
| Channel separation (1 kHz) | 90 dB |
| Wow and flutter | \pm 0.001% |
| Output voltage / sockets | 2 V/cinch |
| Max. programmable music titles | 16 |
| Headphones | 6.35 mm coax. |
| Remote control | |
| Principle/functions | Infra-red/23 |
| Dimensions (W \times H \times D, in inches) | 17.3 \times 3.5 \times 11 |
| Power requirements | 120 V AC, 60 Hz |
| Finish | — S—, black anodized metal fascia |
| Accessories | IR remote control RC 75 with batteries, cinch cable |

Hi-Fi Cassette Deck

| Technical Data (typical values) | CC 5850 |
|---|-----------------------------------|
| Tape speed | 4.75 cm/sec |
| Wow and flutter \pm WRMS % | 0.05 |
| DIN Record/Playback \pm % | 0.10 |
| Frequency response within \pm 3% | |
| Fe tape | 30–15 000 Hz |
| Cr tape | 30–17 000 Hz |
| Metal tape | 30–18 000 Hz |
| Weighted signal-to-noise ratio | |
| Dolby OFF | 60 dB |
| Dolby ON B | 68 dB |
| Dolby ON C | 76 dB |
| Distortion at 0 dB | 0.5% |
| Crosstalk attenuation at 1 kHz | |
| between stereo channels | 40 dB |
| between opposite channels | 75 dB |
| Erase at 1 kHz | 70 dB |
| Inputs (sensitivity for 0 dB) | |
| Cinch | 60 mV |
| Outputs (voltage 0 dB, 200 nW/m) | |
| Cinch | 700 mV |
| Dimensions (W \times H \times D, in inches) | 17.3 \times 4.8 \times 11.8 |
| Power requirements | 120 V AC, 60 Hz |
| Finish | — S—, black anodized metal fascia |

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